



Thermal Transfer Ribbon Technical Data Sheet

TRX-55 Premium Wax/Resin

Product Description

This premium wax/resin formulation is designed to print on a wide variety of receiving materials, including coated and uncoated paper labels and tags, varnished label stock, and films. TRX-55 offers excellent bar code scanning with sharp, reliable images at a wide variety of printing speeds. TRX-55 is an extremely versatile all-purpose wax/resin that will out-perform other ribbons in extreme environments. Powerful resistance against smearing and chemicals makes TRX-55 a perfect choice for your demanding environments.

Recommended Applications



AGENCY



ASSET TRACKING



AUTOMOTIVE



FLEXIBLE PACKAGING



GENERAL



HEALTHCARE



HORTICULTURE



INVENTORY



LOGISTICS



MEDICAL DEVICES



OUTDOOR



PARTS PACKAGING



PHARMACEUTICAL



PRODUCT ID



RETAIL



SHELF



SHIPPING



SIGNAGE



TEXTILE

Recommended Substrates

Coated/uncoated tags, gloss paper, polypropylene, polyethylene, coated/uncoated papers, top-coated vinyl, polystyrene, polyolefin, Tyvek®, Tyvek Brillion®

Performance Characteristics

- Halogen-Free
- Ideal for printing on coated and uncoated paper labels and tags, varnished label stock, and films
- Sharp and reliable print quality at a wide variety of print speeds
- Anti-static for easy handling and extended printhead life
- Excellent bar code scannability
- Superior smudge and chemical resistance
- Extreme versatility
- UL recognized

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Ribbon Properties

Description	Result	Test Method
Ink	Wax/Resin	
Color	Black	Visual
Total Thickness	$8.8 \pm 0.5\mu$	Micrometer
Base Film Thickness	$4.8 \pm 0.3\mu$	Micrometer
Ink Thickness	$4.0 \pm 0.2\mu$	Micrometer
Ink Melting Point	87°C (189°F)	Differential Scanning Calorimeter

Durability of Printed Image

Label Stock: Polypropylene

Print Speed: 6 IPS

Description	Result	Test Method
Print Density	> 1.70	Densitometer
Smudge Resistance	A*	Colorfastness Tester - 50 Cycles @ 500 Grams with Cotton Cloth
Scratch Resistance	A*	Colorfastness Tester - 20 Cycles @ 200 Grams with Stainless Steel Pointed Tip

*American National Standard Institute (ANSI) Grade Levels A, B, C, D, and F, where A is excellent, B is above average, C is average, D is below average, and F is poor.

Conversion Chart

Millimeters (mm) to Inches = $\text{mm} \div 25.4$	Inches to Millimeters (mm) = $\text{Inches} \div 0.03937$
Meters (m) to Feet (ft) = $\text{m} \div 0.3048$	Feet (ft) to Meters (m) = $\text{Feet} \div 3.2808$
C° to F° = $(1.8 \times \text{C}^\circ) + 32 = \text{F}^\circ$	F° to C° = $(\text{F}^\circ \div 1.8) - 17.77$
Thousand square inches (MSI) to m² = $\text{MSI} \times 0.645$	m² = $\text{MSI} \div 0.645$

The information on this data sheet was obtained in DNP laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.

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